

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** June 20, 2005

**Inspector:** Diana Walden

**Location:** 345kV XLPE Component

**Storm/**

**Rain Event:** Between 0.14-0.7" of rain was recorded over 6/19-6/20 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	-The jack and bore of East Swamp Brook is accessed from the roadway. A crane pad has been set up in order to install the sheet piling in the stream. 6/20/06.	- Equipment is located on both sides of the bore as well as in the adjacent ball park during the day. 6/20/06.	- Not applicable (N/A)
	- No obvious sediment tracking was present on the roadway but ruts were noted in the ballpark yard. 6/20/06	-Restore ruts in the ballpark when access is complete and monitor tracking on the roadway. 6/20/06	-N/A
	-The vault near Plumtree Substation continues to be accessed. 5/17-6/20/06	- None at this time. 6/20/06	-N/A
	- Active trench work continues along Rt 58 and the road was closed to thru traffic. All catch basins observed during inspection were protected. 6/7-6/20/06	-Continue to place controls on CBs where work will occur adjacent. 6/20/06	- All catch basin are protected
	- A continuous gully/washout along the slope of Whittlesey Dr. was noted due to the heavy rain, adjacent to the new	-The gully formed before vegetation could establish in the recently seeded areas. The area will have to be restored and	- Needs attention

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>sidewalk. Sediment had also washed out onto the sidewalk down gradient. 6/7-6/20/06</p> <p>-Timber swamp mats were being installed at the Hoyts Hill access off Rt. 58. This is not for 345kV XLPE work. 6/20/06</p>	<p>haybales check dams should be installed to slow run-off velocity. This will likely happen at the completion of the trenchwork. 6/7-6/20/06</p> <p>- Restore the area and remove stone when applicable, following the access needs. Do not access without mats in place. 6/20/06</p>	<p>- Needs attention when work is complete.</p>
Trench and foundation construction	<p>- Work at the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. has resumed. A crane was set on a pad on the stream bank, installing sheet piling in the streambed. 6/20/06</p> <p>- Sandbags were installed all along the bank for stabilization purposes during the work. 6/20/06</p>	<p>-ACOE has granted clearance to perform the work. Monitor the work carefully to avoid turbidity or any fill. 6/20/06</p> <p>- The bank is reinforced well. 6/20/06</p>	<p>-N/A at this time</p> <p>- N/A at this time</p>
	<p>-Work is complete in the pull-off near vault 2a and b and the area should be restored. 5/10-6/20/06</p> <p>-Active trenchwork and conduit bank installation continues along Rt. 58. 6/20/06</p> <p>-Vaults were being accessed to pull cable between some locations. 5/25-6/20/06</p>	<p>-See EC section for more details. 6/20/06</p> <p>- See EC section for more details. 6/20/06</p> <p>- None at this time. 6/20/06</p>	<p>-Needs attention</p> <p>-N/A</p> <p>- N/A</p>
Erosion and Sediment Controls (includes inspection within 24	<p>- Work is complete near vault 2A&amp;B. Silt fence remains in place but the area will need some</p>	<p>- Efforts were made to bring in topsoil but recent rains caused delays. 5/17-6/20/06 Keep stone</p>	<p>-Needs attention</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
hours of a storm event)  <b>Walnut Hill Rd.</b>  <b>Jack and Bore</b>	restoration. 5/10-6/20/06  -Clearance was obtained and work has resumed. The bank is lined and reinforced with sandbags and a boom was placed across the stream in an attempt to filter turbidity. Sheet piling was being installed. 6/20/06  - The crane is on a pad to avoid disturbance to the area above the bank. 6/20/06	surface to the minimum necessary. Allow natural revegetation where possible. 5/10-6/20/06  -The stream was still running clear at the time. Some very minor turbidity was noted as a result of the sheet piling installation. 6/20/06  - Continue to monitor. 6/20/06	-N/A at the time        - N/A
<b>Whittlesey Dr and Judd Ave</b>	- A continuous gully/ washout along the slope of Whittlesey Dr. was noted due to the heavy rain, adjacent to the new sidewalk. Sediment had also washed out onto the sidewalk down gradient. 6/7-6/20/06	- The gully formed before vegetation could establish in the recently seeded areas. The area will have to be restored and haybales check dams should be installed to slow run-off velocity. 6/7-6/20/06	- Needs attention This will likely happen when trenchwork is complete
<b>Rt. 58</b>	- All catch basins observed during the inspection and adjacent to work had controls in place. 6/20/06	- Continue to protect CBs adjacent to work as necessary. 6/20/06	- CBs are being controlled
<b>Hoyts Hill</b>	- Mats were installed at the base of slope at Hoyts Hill. Access is needed for other contractors. 6/20/06	-When access needs are complete, restore and allow wetland vegetation to return. 6/20/06	-N/A until access is done.
Inland Wetland and Watercourse encroachment and mitigation	-Work in East Swamp Brook has begun under ACOE clearance. Sheet piling is being driven into the stream bed. The bank is reinforced with sandbags. 6/20/06	- Work in the stream should be carefully monitored. Occasional, slight turbidity was noted from the piling installation. 6/20/06	-N/A at this time

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State species of concern, threatened and endangered species	<ul style="list-style-type: none"> <li>-The D&amp;M plan and clearance letter states that state-listed species are not located in this work area.</li> <li>-The wood turtle was noted at Plumtree Substation during the 5/25/06 inspection.</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>-345kV XLPE crews should also be performing daily walkthroughs before moving equipment while working in the vault. Be vigilant when moving equipment. 4/26-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>-N/A</li> <li>- Crews were informed</li> </ul>
Vegetative clearing limits (including trees to save or danger trees noted)	<ul style="list-style-type: none"> <li>-Gullies had formed in the recently seeded areas adjacent to the sidewalk at the Whittlesey Dr slope. 6/7-6/20/06</li> <li>- Other restored areas had noticeable grass growth. 6/20/06</li> <li>- When restoring vault 2, a stone surface will be necessary over the vault but wetland vegetation is returning near the silt fence. 5/4-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>-See erosion control section. 6/20/06</li> <li>- Continue to monitor for final stabilization. 6/20/06</li> <li>- Keep the stone area to the minimum necessary and restore vegetation in the remaining area. 5/4-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>-Needs attention</li> <li>- N/A</li> <li>- Needs attention</li> </ul>
Dewatering	<ul style="list-style-type: none"> <li>- A filter bag was on site at the vault access work near Plumtree Substation but dewatering was not noted. 6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>- Continue to use the controls. 6/7-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>- Filter bag is on site</li> </ul>
Blasting	<ul style="list-style-type: none"> <li>- No blasting is occurring at this work area.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>	<ul style="list-style-type: none"> <li>-N/A</li> </ul>
Soils	<ul style="list-style-type: none"> <li>- Soil was being handled appropriately in the Rt 58 trenchwork and the work site is clean and contained. 6/20/06</li> <li>- Topsoil remains stripped and stockpiled at the contractor yard. 3/15-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. 6/20/06</li> <li>- None at this time. Controls are well installed here. 3/15-6/20/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>-N/A</li> </ul>
Spills and Material	<ul style="list-style-type: none"> <li>- Equipment should be stored overnight up to</li> </ul>	<ul style="list-style-type: none"> <li>- Report spills immediately, even if they</li> </ul>	<ul style="list-style-type: none"> <li>-N/A at the time</li> </ul>

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Storage Areas	100ft or as far from resource areas where practicable. 1/19-6/20/06  - Environmentally safe, biodegradable hydraulic oil was being used in the generator on site of the jack and bore. 6/20/06	are being controlled. - Any fuels and agents not in use should be covered and stored before leaving for the day. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.	

**Next likely scheduled inspection:**

Wednesday June 28, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden





**345kV XLPE: Photo on the left shows the vault access adjacent to Plumtree Substation. Filter bags are on site if needed for dewatering. Photo on the right shows the crane set up on a pad in order to install the sheet piling in the stream. ACOE clearance was obtained. 6/20/06**



**Photo on the left shows the stream bank lined and reinforced with sand bags for the in-stream jack and bore work. Photo on the right shows sheet piling being installed in the streambed. 6/20/06**





Photo on the left shows one of the generators being used on site. It runs on biodegradable oil. Photo on the right shows a boom across the stream in an effort to filter out any turbidity resulting from the work. 6/20/06



Photo on the left shows timber mats in place at the Hoyts Hill wetland off Rt. 58. Access is needed in this area again, but not for 345kV XLPE work. Photo on the right shows some of the active trenchwork along Rt. 58. All catch basins are protected with fabric in this area. 6/20/06